

LITVINOV, M.A.; RASSADINA, K.A.

Experimental study of antibiotic properties of lichens occurring  
in the U.S.S.R. Bot. zhur. 43 no.4:557-560 Ap '58. (MIRA 11:6)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR,  
Leningrad.

(Lichens) (Antibiotics)

RASSADINA, K.A.

"Lichens of the Ukraine" by A.N. Oksner. Vol.1. Reviewed by K.A. Rassadina. Bot. zhur. 43 no.4:606-609 Ap '58. (MIRA 11:6)

1. Botanicheskiy institut im. V.I. Komarova Akademi nauk SSSR, Leningrad.

(Ukraine--Lichens)  
(Oksner, A.N.)

I, 24139-66 EWT(1)/T JK

ACC NR: AP6014668 (A, N) SOURCE CODE: UR/0319/65/050/011/1603;1604

AUTHOR: Rassadina, Ye. G. 32ORG: All-Union Institute for the Protection of Vegetation, Leningrad (Vsesoyuznyy institut zashchity rasteniy) BTITLE: Biology of the germination of uredospores of the pathogen of stem rust in wheat

SOURCE: Botanicheskiy zhurnal, v. 50, no. 11, 1965, 1603-1604

TOPIC TAGS: wheat, plant parasite, plant disease, vitamin, fungus, plant reproduction, plant chemistry

ABSTRACT: Investigations revealed that solutions of certain growth-promoting substances and vitamins stimulate the germination of uredospores of *Puccinia graminis*, the pathogen of stem rust of wheat. This was found to be particularly true of solutions of benzimidazole in a concentration of 0.01%, thionine in a concentration of 0.01%, and polyvitamins — B<sub>1</sub>B<sub>2</sub>C — in a concentration of 0.03%; observations established their positive effect on the germination of uredospores in different strains of the pathogen of stem rust. Data obtained in the study of the most wide-spread strains of the organism — 21, 34, and 15 — established that the percentage of uredospores which attained germination in the spores which were freshly gathered from controls was considerably smaller than that in spores when no stimuli were

Card 1/2

UDC: 576.8.094.5: 576.8.094.81: 595.785: 633.11

L 24139-66

ACC NR: AP6014668

applied. Further investigations established that spore germination and ripening can occur without the application of stimuli: proper temperature conditions also serve as a stimulus for the germination and ripening of the uredospores of the pathogen of stem rust. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: 02Sep63 / OTH REF: 004

Card 2/2

RASSADINA, K.A.

Materials on the lichen flora of the Sayans. Trudy Bot. inst. Ser.  
5 no.9:382-390 '61. (MIRA 15:1)

(Sayan Mountains--Lichens)

OXSNER, A.N., RASSADINA, K.A.

New representatives of the genus *Cetraria* in the U.S.S.R.  
Bot. mat. Otd. spor. rast. 13:5-14 '60. (MIRA 13:7)  
(Yakutia--Lichens) (Soviet Far East--Lichens)

RASSADINA, K.A.

The new species *Cladonia oxneri* Rass. Bot. mat. Otd.  
spor. rast. 13:14-20 '60. (MIRA 13:?)  
(Yamal Peninsula--Lichens)

RASSADINA, K.A.

Some new and interesting species of Parmelia and Hypo-  
gymania in the U.S.S.R. Bot. mat. Otd. spor. rast. 13:20-  
25 '60. (MIRA 13:7)  
(Baikal region--Lichens) (Soviet Far East--Lichens)

RASSADINA, K.A.

The *Parmelia caperata* group in the U.S.S.R. Trudy Bot. inst. Ser.  
2 no.12:5-17 '59. (MIRA 12:12)  
(Lichens)

RUNG, E.Kh.; SEMYAKIN, G.N.; RASSADINA, S.A.

Machine for washing re-usable glass containers. Kons. i ov.  
prom. 16 no.6:16-18 Je '61. (MIRA 14:8)

1. Odesskiy konservnyy kombinat.  
Odessa--Canning industry--Equipment and supplies)  
(Washing machines)

VILKOVA, N.A., aspirantka; KOZLENKO, V.N., fitopatolog (Brazhnoye, Krasnoyarskogo kraya); GULYARENKO, F.N.; RAZVIYAZINA, G.M.; KAPKOVA, Ye.A.; BELYANCHIKOVA, Yu.V.; DZHUMABAYEV, P., aspirant; RASSADINA, Ye.G., aspirant; NIKITINA, M.D., mladshiy nauchnyy sotrudnik; LOGINOVA, K.M., kand.sel'skokhoz.nauk; YUZ'KO, S.L.; PETROVA, N.A.

Brief information. Zashch. rast. ot vred. i bol. 8 no.9:53-57  
S '63. (MIRA 16:10)

1. Vsesoyuznyy institut zashchity rasteniy (for Vilkova, Rassadina).
2. Zaveduyushchiy Lisetskim sortouchastkom, selo Krekhovtsy, Ivanovo-Frankovskoy oblasti (for Gulyarenko).
3. Laboratoriya mikologii Vsesoyuznogo instituta zashchity rasteniy (for Dzhumabayev).
4. Chitinskaya sel'skokhozyaystvennaya opytная stantsiya (for Nikitina).
5. Pushkinskaya baza Vsesoyuznogo instituta zashchity rasteniy (for Loginova).
6. Ul'yanovskaya sel'skokhozyaystvennaya opytная stantsiya, pochtovoye otdeleniye Isheyevka (for Petrova).

RASSADINA, Ye.G.

Biology of the germination of uredospores of the  
causative agent of the stem rust of wheat. Bot.zhur.  
50 no.11:1603-1604 N '65.

(MIRA 19:1)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.  
September 2, 1963.

ZAREMBO, K.S.; RASSADINA, Ye.N.; GORBUNOV, V.N.; SHEVELEV, B.P.

High pressure gas pipelines made of fiber glass plastic materials. Trudy VNIIGAZ no.8:124-141 '60. (MIRA 15:5)  
(Gas, Natural--Pipelines) (Glass reinforced plastics)

RASSADINA, Z.A.; POZAIPOVA, I.H.

Two cases of sympathogonioma in children. *Pediatria* 37 no.7:88  
J1 '59. (MIRA 12:10)

1. Iz Instituta pediatrii AMI SSSR, Moskva.  
(TUMORS)

SHPARO, L.A.; FOKINA, T.V.; MIRIMOVA, T.D.; ~~RASSADINA, Z.A.~~; MEL'GUNOVA,  
T.M.; MOSKACHEVA, K.A.; BARANOVA, Ye.P., red.; LUZ'MINA, N.S.,  
tekhn.red.

[Peculiarities in the reaction of the growing organism to the  
action of ionizing radiation] Osobennosti reaktsii rastushchego  
organizma na deistvie ioniziruiushchei radiatsii. Moskva, Gos.  
izd-vo med.lit-ry Medgiz, 1960. 175 p. (MIRA 14:3)  
(RADIATION--PHYSIOLOGICAL EFFECT)

MIRIMOVA, T.D.; RASSADINA, Z.A.

Experience in X-ray therapy for lymphogranulomatosis in children.  
Pediatria 38 no.2:50-54 F '60. (MIRA 13:12)  
(HODGKIN'S DISEASE) (X RAYS--THERAPEUTIC USE)

RASSADKIN, A. M.

Textile Industry - Study and Teaching

Technical education is the basis for preparing young workers. Tekst. prom. 12 No. 7 1952.

Monthly List of Russian Accessions Library of Congress, October, 1952, Unclassified.

RASSADKIN, I., inzh.

Barns for loose housing of cattle. Pozh.delo 5 no.12:6-8  
D '59. (MIRA 13:4)  
(Farm buildings--Fires and fire prevention)

RASSADKIN, I., inzhener.

Hot-water heating in low houses. Pozh.delo 3 no.9:7 S '57.  
(MLRA 10:9)

(Hot-water heating)

RASSADKIN, I. (Moskva); RAKITYANSKIY, V. (Moskva); YEROSHKIN, V. (Moskva);  
KONCHAYEV, B. (Leningrad); PARADA, V. (Uzbekskaya SSR);  
YADRENNIKOV, G. (Kurganskaya obl.); KRYLOV, Ye., (Temir-Tau);  
PAN'KO (Krasnoyarsk); BALASHOV, V. (Komsomol'sk-na-Amure);  
PAVLENKO, S. (Rubtsovsk); TOKOYEV, N. (Kirgizskaya SSR);  
ANDRIYENKO, A. (Perm'); TEREKHOV (Tula); KAZAKOV, M. (Baku);  
TALBAYEV (Aktyubinskaya obl.); KOPEVA, T. (Khar'kov); CHERKASHIN,  
I. (Izhevsk); BEZDETKO, V. (Alma-Ata); BURKOV (Kurganskaya obl.);  
KARPOV A. (Krasnodar); BOGDANOV (Ivanovo); SOZINOV, M. (Gor'kiy)

Is there a need for external fire escape stairs? Pozh.delo  
8 no.7:26-27 J1 '62. (MIRA 15:8)

(Fire escapes)

RASSADKIN, I. D.

SOLOV'YEV, S.G.; CHEKURIN, I.P.; RASSADKIN, I.D., redaktor; IOFFE, M.L.,  
redaktor; KONTASHINA, A.D., tekhnicheskii redaktor

[Fire prevention manual] Sbornik rukovodiashchikh dokumentov po  
pozharnoi profilaktike. Moskva, Izd-vo M-va kommun.khoz. RSFSR.  
Vol.3. 1957. 570 p. (MLRA 10:8)  
(Fire prevention)

**RASSADKIN, I.D.**, redaktor; **PEVZNER, A.S.**, redaktor; **FOKER, A.M.**, tekhnicheskiy redaktor.

[Instructions concerning fire prevention measures during building operations] Instruktsiia o merakh pozharnoi bezopasnosti pri proizvodstve stroitel'nykh rabot. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 30 p. (MIRA 8:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye pozharnoy okhrany. (Building--Safety measures) (Fire prevention)

RASSADKIN, I., inzh.

New technical requirements for fire prevention. Inzh. delo 7  
no. 2:12 F '61. (MIRA 14:2)  
(Fire prevention—Laws and regulations)

RASSADKIN, I., inzh.

Enforce the code requirements and inspection. Fozh.delo 5  
no.11:2-3 N '59. (MIRA 13:4)  
(Fire prevention--Laws and regulations)  
(Construction industry)

BUSHUV, V.P.; RASSADKIN, I.D., redaktor; IOFFE, M.L., redaktor;  
KOHYASHINA, A. tekhnicheskiy redaktor.

[Fire resistance of fireproof doors] Ognestoikost' protivopozharnykh dverei. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 36 p. (MLRA 8:10)  
(Building, Fireproof) (Doors)

KASHKAROV, Iosif Mikhaylovich; RASSADKIN, I.D., redaktor; BENENSON, A.N.,  
redaktor; LAZOVSKAYA, L.P., tekhnicheskij redaktor

[Fire prevention methods in libraries] Protivopozharnye meropriatia  
v bibliotekakh. Pod red. I.D.Rassadkina, Moskva, Gos. izd-vo  
kul'turno-prosvetet. lit-ry, 1956. 20 p. (MIRA 10:1)  
(Libraries--Fires and fire prevention)

**RASSADKIN, K.**

Reorganization of a small meat combine. *Mias.ind,SSSR 28 no.4:46-47*  
1957. (MLRA 10:7)

1. Borisoglebskiy myasokombinat.  
(Packing houses)

RASSADNIKOV, YE. I.

ENERGETIKA URALA ZA 40 [I.E. SOROK] LET. POD.  
OBSHCHEY RED. YA. G. MAKJSHKINA, A.M. MARINOVA [I]  
YE. I. RASSADNIKOVA. MOSKVA, LE'INGRAD, GOSTENERGOIZ-  
DAT, 1958.

141 P. ILLUS., DIAGRS., GRAPHS, MAPS TABLES.  
27 CM.

RASSADNIKOV Ye I

BLINOVA, V.N.; DEMIDOV, A.A.; KOLIN, Ya.S.; MAKUSHKIN, Ya.G.; MYZIN, L.M.;  
PERMYAKOV, N.P.; PONEDELKO, A.I.; BOROVIK, Z.G.; YEFREMOV, I.A.;  
KOPAYGRODSKIY, A.B.; MARINOV, A.M.; NEKHOROSKOVA, O.I.; POKROVSKIY,  
A.F.; ROMANOVSKIY, A.A.; RASSADNIKOV, Ye.I., red.; SAVEL'YEV, V.I.,  
red.; FRIDKIN, A.M., tekhn.red.

[Electric power in the Urals during the past 40 years] Energetika  
Urals za 40 let. Moskva, Gos. energ. izd-vo, 1958. 141 p.

(MIRA 11:5)

(Ural Mountain region--Electric power)

KLOFOV, A. YA. and RASSADNIFOV, E. I.

Osnovy televizionnoi tekhniki. [Principles of television engineering]. Moskva, Gosenergoizdat, 1951. 425 p.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

RASSADNIKOV, Ye.I.

YERMAKOV, V.S.; KLOCHKOV, I.M.; CHIZHOV, D.G.; KOGTEV, O.I.; LAVRENNKO, K.D.; NEKRASOV, A.M.; SPIRIN, S.A.; VESKLOV, N.D.; KOTILEVSKIY, D.G.; SMIRNOV, G.V.; MARINOV, A.M.; MAKSIMOV, A.A.; IVANOV, M.I.; KIMOV, A.P.; CHUPRAKOV, N.M.; AVTONOMOV, B.V.; SYROMYATNIKOV, I.A.; MOLOKANOV, S.I.; FAERMAN, S.F.S.; GORSHKOV, A.S.; GOL'DENBERG, P.S.; SOKOLOV, B.M.; MAKUSHKIN, Ya.G.; MKHITARYAN, S.G.; RASSADNIKOV, Ye.I.; GHUDINSKIY, P.G.; POMICHEV, G.I.; SHCHERBININ, B.V.; ZAYTSEV, V.T.; KOKOREV, S.V.; KLYUSHIN, M.P.; PESCHANSKIY, V.I.; SAFRAZHENYAN, G.S.; i dr...

IUrii Prokhorovich Komissarov; obituary. Elek.sta. 25 no.5:60 My '54.  
(Komissarov, IUrii Prokhorovich, 1910-1954) (MLRA 7:6)

RASSADNIKOV, Ye.I.

IL'KOV, B.F.; KIREYEV, G.A.; LOZOVSKIY, A.T.; LAKHMAN, I.L.; NIKOLAYEV, G.A.;  
PAVLUSHCHENKO, Y.P.; ROZHDESTVENSKIY, I.K.; HUYIMSKIY, I.M.; SAVINOV-  
SKIY, D.A.; SENCHENKO, Ye.F.; SEREDA, A.S.; SOKOLIK, V.D.; RASSADNI-  
KOV, Ye.I., redaktor; SHELYAGINA, A.A., redaktor; LARIONOV, G.Ye.,  
tekhnicheskij redaktor

[Operation of the Sredne-Uralsk Hydroelectric Power Station] Opyt  
ekspluatatsii Sredne-Ural'skoi GRES. Pod red. E.I.Rassadnikova i  
I.K.Rozhdestvenskogo. Moskva, Gos. energ. izd-vo, 1956. 103 p.  
(MLRA 10:1)

(Sredne-Uralsk Hydroelectric Power Station)

RASSANOVA, T. A.: Master Biol Sci (diss) -- "Electrocardiographic investigation of cows of the Tagil breed". Omsk, 1959. 13 pp (Min Agric USSR, Omsk Vet Inst), 150 copies (KL, No 13, 1959, 103)

KHODORKINA, A.A., detset; RASSANOVA, T.A., assistant; STARODUMOVA, Z.N.,  
assistant.

Saprepelic mud therapy in noninfectious internal diseases in  
farm animals and poultry. Veterinariia 32 no.12:49-52 D '55.

1.Sverdlevskiy sel'skokhozysystvennyy institut.  
(EARTHS, MEDICAL AND SURGICAL USES OF)(VETERINARY MEDICINE)

USSR/Plant Physiology - Mineral Nutrition.

H-3

Abs Jour : Referat Zhur - Biol. No 16, 25 Aug 1957, 68947

is quantity of  $P^{31}$  and  $Y_p$  — quantity of  $P^{32}$  incorporated into the soil, and  $X_p$  — quantity of  $P^{31}$  and  $Y_p$  — quantity of  $P^{32}$  assimilated by the plant,  $D$  — content of phosphorus in the seeds. No parallelism was noted between phosphates soluble in citric acid and that absorbed by plants in different soils. The increased absorption of phosphorus by plants upon incorporation of increasing doses of P on one soil increases approximately proportionately to the quantity  $E$  and  $L$ , which results in close agreement. Index  $E$  has the advantage in that it is very simply determined by shaking of the soil with a solution of labeled phosphate. However, these indices do not give a correct concept of accessible phosphates to plants on different soils; only the reciprocal magnitude of  $S$ , i.e.  $1/S$  is in concordance with the data on experiments with plants. In the study of interaction of phosphates and iron in plants in short-time experiments it was shown that feed-

Card 2/3

RASSEI, K.P.

Use of synthetic mica in electron tubes which are processed  
at high bake-out temperatures. Radiotekh. i elektrom. 5  
no.7 :1184-1185 JI '60. (MIRA 13:6)

(Electron tubes) (Mica)

S/109/60/005/07/021/024  
E140/E163

9.4100

AUTHOR: Rassel, K.R.

TITLE: The Use of Synthetic Mica<sup>15</sup> in Vacuum Tubes Processed at High Bake-out Temperatures

PERIODICAL: Radiotekhnika i elektronika, Vol 5, No 7, 1960, pp 1184-1185 (USSR)

ABSTRACT: The author confirms data presented by Leyzerzon (reference in footnote on p 1184) concerning the use of synthetic mica in vacuum tube production. ✓

There are 2 figures and 1 Soviet reference.

SUBMITTED: February 3, 1960

Card 1/1

USSR/Plant Physiology - Mineral Nutrition.

H-3

Abs Jour : Referat Zhur - Biol. No 16, 25 Aug 1957, 66947

ings with iron citrate do not noticeably decrease the absorption of phosphates, but strongly impede the movement of P from the root system to the vegetative mass. In short-time experiments on effect of aluminum on absorption of phosphates by plants was noted. Rye and cabbage absorbed P from highly diluted solutions better than wheat. The investigation was made at Oxford University.

Card 3/3

RASSEV, S.D.; CLEMENS, K.

Some theoretical problems of pyrolysis. Rev chimie Min petr 14  
no.3:123-129 Mr '63.

RASSHCHEPKIN, S.P.

USSR/General Problems of Pathology -

U-2

Tissue Transplantations and Tissue Therapy.

Abs Jour : Ref Zhur Biol., No 5, 1958, 22859

Author : Rasshchepkin, S.P.

Inst : -

Title : On the Effect of Extracts from Some Preserved Tissues upon Higher Nervous Activity and Blood Circulation.

Orig Pub : Tr. Astrakhansk. med. in-ta, 1956, 12, No2, 209-215

Abstract : Intramuscular injection of extracts of preserved tissue from ovaries, spleen and aloe, prepared by V.P. Filator's method, caused some alterations in the higher nervous activity of dogs: an increase in the latent period and a decrease in the magnitude of conditioned reflexes up to complete inhibition, and an interference with differentiation. The animals' behavior was characterized by apathy, refusal of food and other manifestations of CNS inhibition. Blood pressure levels

Card 1/2

USSR/General Problems of Pathology -

U-2

Tissue Transplantations and Tissue Therapy.

Abs Jour : Ref Zhur - Biol., No 5, 1958, 22859

decreased during small (1 ml.) and large (10-20 ml) doses and increased when intermediate doses (3-4 ml) were given.

Card 2/2

KONOV, V., inzh.; SAKHAROV, S., inzh.; SUBBOTIN, I., inzh.; CHEREMYKH, Y., inzh.;  
KARYAKO, B., inzh.; RASSHCHEPKIN, V., inzh.; BORISOVA, T., inzh.;  
PEREPELTSYN, M., inzh.; GARMASH, V., inzh.; GOLOVINA, V., inzh.

New developments in building practice. Na stroi. Ros. 4 no.1:7,11,14,18,  
26,30 Ja '63. (MIRA 16:3)

(Building—Technological innovations)

RASSHCHEPYAYEV, Yu.S.

Effect of negative feedback on the reliability of an amplifier.  
Elektrosviaz' 19 no.1:41-45 Ja '65. (MIRA 18:4)

RASSHCHEPLYAYEV, Yu. (Rostov-na-Donu); SHESHKO, M. (Gomel'skaya obl.);  
OVCHAROV, Ye. (Vinnitsa); SAMTSOVICH, Ye. (UA6LIZ) (Rostov-na-  
Donu); ANTONOV, V. (Moskva); BUTOV, P.

Exchange of experiences. Radio no.9:48,51,53,...62 S '63.  
(MIRA 16:12)

RASSHCHEPLYAYEV, Yu. (Rostov-na-Donu); SOLOV'YEV, V. (Rostov-na-Donu)

Efficient transistor detector circuit. Radio no. 7:39 '64.

(MIRA 18:1)

RASSHCHEPLYAYEV, Yu.S.

Methods for changing the amplification factor of a transistor  
amplifier. Priborostroenie no.2:30 F '63. (MIRA 16.5)  
(Transistor amplifiers)

15 (7), 15 (9)

AUTHORS:

Dogadkin, B. A., Sandomirskiy, D. M., SO7/64-59-5-8/28  
Rasshivalina, K. I., Geller, T. I.

TITLE:

Production and Properties of a Varnish for Rubber Shoes by  
Oxidation of Sodium Butadiene Rubber in Solution

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 5, pp 398 - 401 (USSR)

ABSTRACT:

A. I. Tavetkov, S. I. Khodosh, and O. V. Baksht participated in the development of the process. In the oxidation of polybutadiene rubber or a vulcanizate of sodium butadiene rubber an oxidation product may be obtained which is utilized as a film former or serves for the manufacture of adhesive substances. Oxidation experiments were carried out with sodium butadiene rubber solutions in white spirit in order to obtain a varnish for rubber shoes on this basis. The oxidation experiments were made during a continuous passage of air through the solution. A temperature of 120° proved to be most suitable when using 11-12% solutions. The course of the process was determined as to the viscosity of the solution (Figs 3,4). Since a temperature increase does not only accelerate the destruction but also the structure formation, various substances such as ferric oleate, or ferric stearate, 2% captax + 5% benzoic acid, as well

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Production and Properties of a Varnish for Rubber Shoes by Oxidation of Sodium Butadiene Rubber in Solution

SOV/64-59-5-8/28

as pure benzoic acid, polyphenols, RPA-2, "renatsite", etc, were investigated. The most effective substances were the two iron salts (3.5 parts by weight/100 parts by weight (sodium butadiene rubber)) with the aid of which the desired consistency of the 12% solution of 16 centipoises in 8 hours at 100° (instead of within 15-16 hours at 120°) was attained, thus forming considerably less peroxide groups and volatile acids. 40 l/hour per 1 kg of solution was found as the optimum air supply velocity (at 100-120°) (Fig 5). Experiments with iron isotopes showed that in the oxidation iron is linked completely to sodium butadiene rubber, i.e. it does not only act as oxygen carrier (which needs further experiments). The influence exerted by the oxidation period on the properties of the finished varnish film (Fig 6, diagrams) was investigated. The best results were obtained from a varnish to which ferric stearate, 2% sulphur, and 2% thiuram (or 4% butyl cymate or 2% carbon-black) were added since said varnish dries at 100° in 30 minutes (and at 70° in 50 minutes with butyl cymate or carbonblack) and exhibits a correspondingly good adhesion on rubber shoes. On

Card 2/3

Production and Properties of a Varnish for Rubber  
Shoes by Oxidation of Sodium Butadiene Rubber in  
Solution

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the basis of the results obtained in the zavod "Krasnyy Bogatyr"  
("Krasnyy Bogatyr" Plant) a suitable plant was designed for the prod-  
uction of a varnish for noncured rubber shoes (Fig 8). A de-  
scription of the plant is given. There are 8 figures and 6  
Soviet references.

Card 3/3

SHEYNERMAN, Ye.M.; DANILYUK, I.A.; RASSIN, L.Ye.; PRONINA, L.N.

Determining the permeability to air of textile fabrics on the  
universal "UPV" apparatus. Nauch.-issl.trudy TSHIKHBI '60  
[publ. '62]:209-216. (MIRA 18:2)

DANILYUK, I.A.; RASSIN, L.Ye., inzh.-konstruktor; PRONINA, L.N., mladshiy nauchnyy sotrudnik; SHEYNERMAN, Ye.M., starshiy nauchnyy sotrudnik

Apparatus for determining the permeability to air of textile fabrics. Tekst.prom. 21 no.12:68-69 D '61. (MIRA 15:2)

1. Rukovoditel' gruppy konstruktorskogo byuro zavoda Tekstil'pribor (for Danilyuk). 2. Zavod Tekstil'pribor (for Rassin). 3. Tsentral'nyy nauchno-issledovatel'skiy institut khlochatobumazhnoy promyshlennosti (for Pronina, Sheynerman).

(Textile fabrics—Testing)  
(Manometer)

SUKHOVOI'SKIY, A.Ya., inzh.; LIFSHITS, I.S., inzh.; RASSINSKIY, I.V., inzh.

Preparing prestressed reinforced concrete beams for roofs of industrial buildings. Transp. stroi. 14 no.7:20-23 JI '64.

(MIRA 18:1)

RASSKAZIKHINA, N., inzh.; KHRAPKO, R., inzh.

Underwater intercommunication device. Radio no.5:26-27 My '61.  
(MIRA 14:7)

(Underwater acoustics) (Intercommunication systems)

S/107/61/000/005/003/004  
E192/E382

**AUTHORS:** Rasskazikhina, N. and Khrapko, R., Engineers  
**TITLE:** An Underwater Communications Device ("Walkie-talkie")

**PERIODICAL:** Radio, 1961, No. 5, pp. 26 - 27

**TEXT:** The system described is an independent communications device whose weight, together with supply sources, is about 1 kg. The equipment can be used for voice-communications (talking) under water and consists of a throat microphone, a low-frequency amplifier based on transistors, an underwater loudspeaker and a supply source. Since a throat microphone is used in this equipment, it can be employed by divers provided with aqualungs or oxygen cylinders. The supply source is provided by 8 or 10 pocket-lamp batteries (type K5C-J-0.5 (KBS-L-0.5)). The useful life of a set of such batteries is 30 - 50 min (continuous). The amplifier is shown in Fig. 1, where the first stage is an emitter-follower which provides a matching buffer between the microphone and the input of the amplifier proper. The second stage is the first

Card 1/3



An Underwater Communications .... S/107/61/000/005/003/004  
E192/E382

amplifier with a transformer load; this is followed by the output stage, based on 2 transistors, type П4В (P4V), which operate in push-pull without an output transformer. The coil of the loudspeaker, with a resistance of  $5 \Omega$ , is the load to the output amplifier. The output power of the amplifier is 25 W, its efficiency being about 75%. The underwater loudspeaker is based on a dynamic loudspeaker, type 2Г-3 (2GD-3) (Fig. 2). The magnetic system 1 of the speaker is covered by a duralumin ring 2, which supports a diaphragm made of celluloid, 0.3 - 0.5 mm thick. The diaphragm is fixed by another ring 4, which is screwed onto the top of the first ring. The coil of the loudspeaker is fixed to a diaphragm and its terminals are taken through small apertures in the diaphragm which are hermetically sealed. The equipment is switched off by means of the key  $K_1$ , which is sealed inside a small rubber bag.  
There are 2 figures.

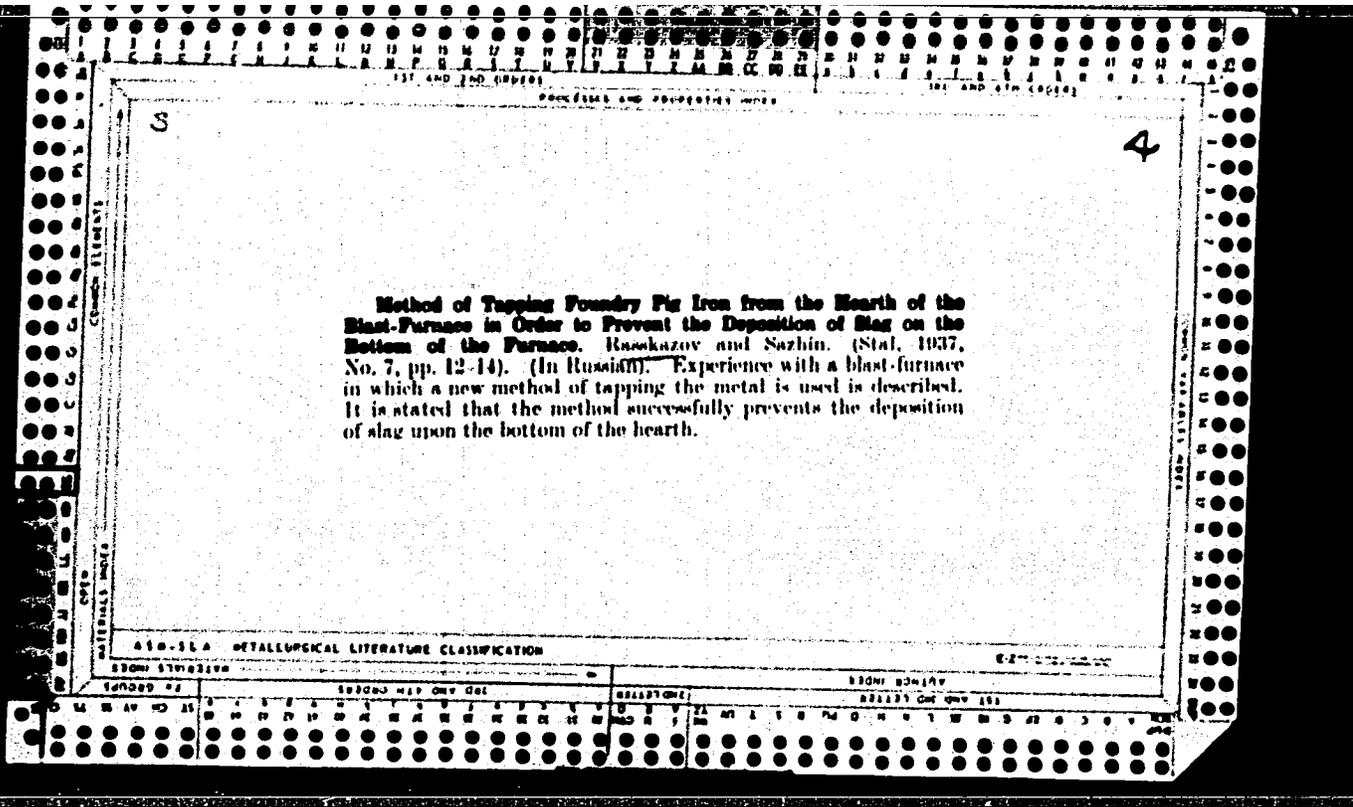
Card 2/3

MATVEYEV, V.V.; PANOVA, V.P.; RASSKAZIKHINA, T.F.; SOKOLOV, A.D.

Fast neutron spectrometry with the aid of lithium iodide  
scintillating single crystals. Prib. 1 tekhn. eksp. 8 no.4;  
46-48 J1-Ag '63. (MIRA 16:12)

GOKHSHEYN, David Petrovich; RASSKAZOV, D.S., red.; FRIDKIN, L.M.,  
tekhn. red.

[Entropy method for calculating energy losses] Entropiyni  
metod rascheta energeticheskikh poter'. Izd.2., perer.  
Moskva, Gosenergoizdat, 1963. 109 p. (MIRA 16:6)  
(Heat engineering) (Thermodynamics)  
(Refrigeration and refrigerating machinery)



MILLER, O.G.; RASSKAZOV, A.P.

Effect of the consumption of quartz flux on the distribution of metals in the conversion of polymetallic mattes. Izv. AN Uz. SSR. Ser. tekhn. nauk 7 no.1:74-80 '63.

(MIRA 17:6)

1. Gornyy otdel AN UzSSR.

L 06476-57

ACC NR: AR6017577

(N)

SOURCE CODE: UR/0196/66/000/001/L025/L025

AUTHOR: Zakharov, Yu. P.; Rasskazov, B. N. 53  
B

TITLE: The operation of the propulsive electrical plant in the icebreaker "Leningrad"

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 11136

REF SOURCE: Inform. sb. Tsent. n.-i. in-t morsk. flota, vyp. 131, 1965, 81-90

TOPIC TAGS: <sup>14</sup> shipbuilding engineering, electric power plant, electric propulsion, advanced propulsion engine, propulsion performance, propulsion R and D, propulsion system, propulsion system test, propulsion test, marine engine, marine engineering

TRANSLATION: The icebreaker "Leningrad" has 8 main diesel generators supplying three propulsion electric drives. The main generators are rated at 2160 kilowatt, 600 v, 3600 amps and 3300 rpm. The propulsion electric drives on the port and the starboard are rated at 4050 kilowatt, 1200 v, 3600 amps and 115/155 rpm. The middle screw is driven by a tandem propulsion electric drive rated at 2 x 4050 kilowatt, voltage across each armature of 1200 v, and a current of 3600 amps. The power to the screws is distributed in a ratio of 1:2:1. The electric propulsive plant was tried out under the operational conditions of ship's opening up the Yenisey delta. As a result of the test data analysis for the icebreaker "Leningrad" the following conclusions were reached:

1. The start and the reverse of the electric propulsive plant is smooth and ensures

UDC: 629.12.066

Card 1/2

TSEDERBERG, Nikolay Valerianovich; RASSKAZOV, D.S., red.; BUL'DYAYEV,  
N.A., tekhn. red.

[Thermal conductivity of gases and liquids] Teploprovodnost  
gazov i zhidkosti. Moskva, Gosenergoizdat, 1963. 407 p.  
(MIRA 16:9)

(Gases--Thermal properties)  
(Liquids--Thermal properties)

GOKHSHTYIN, David Petrovich, RASSKAZOV, D.S., redaktor; SKVORTSOV, I.M.,  
tekhnicheskiy redaktor.

[Using waste heat in heat pumps] Ispol'sevanie etkhedov tepla v  
toplovykh nasesakh. Moskva, Gos. energ. izd-vo, 1955. 79 p.  
(Heat pumps) (Waste heat) (MLBA 9:5)

MARTYNOVSKIY, Vladimir Sergeevich; RASSKAZOV, D.S., redaktor; FRIDKIN,  
A.M., tekhnicheskiy redaktor.

[Heat pumps] Teplovye nasosy. Moskva, Gos.energ. izd-vo, 1955.  
190 p. (MLRA 8:6)  
(Heat pumps)

VUKAIOVICH, M.P., doktor tekhn.nauk; DZAMPOV, B.V., kand.tekhn.  
nauk; RASUKAZOV, D.S., kand.tekhn.nauk; REMIZOV, S.A. izzh.

Thermal properties of water under pressures up to 1200  
kg/cm<sup>2</sup> and at temperatures up to 300°C. Teploenergetika  
7 no.7:4-12 J1 '60. (MIRA 13:7)

1. Moskovskiy energeticheskiy institut.  
(Water--Thermal properties)

VUKALOVICH, M.P., doktor tekhn.nauk; SHEYNDLIN, A.Ye., doktor tekhn.nauk.;  
RASSKAZOV, D.S., kand.tekhn.nauk

Studying the heat capacity  $C_p$  of water under pressures up to  
700 ata and temperatures up to 700° C. [with summary in English].  
Teploenergetika 5 no.7:7-9 J1 '58. (MIRA 11:9)

1. Moskovskiy energeticheskiy institut.  
(Water vapor)

*Воронин, Г.И.*  
VORONIN, Grigoriy Ivanovich, prof. dokt.tekhn.nauk., VUKALOVICH, M.P., prof.  
dokt.tekhn.nauk, retsenzent.; PETUKHOV, B.S., prof., dokt.tekhn.nauk,  
retsenzent.; ZUBAREV, V.N., dots.,kand.tekhn.nauk, retsenzent.; ISACHENKO,  
V.P., dots.,kand.tekhn.nauk, retsenzent.; RASSEKAZOV, D.S., inzh.,red.;  
PETROVA, I.A., izd.red.; PUKHLIKOVA, N.A., tekhn.red.

[Principles of thermodynamics and heat transfer] Osnovy termodinamiki  
i teploperedachi. Moskva, Gos. izd-vo obor., promyshl., 1958. 341 p.

(MIRA 11:9)

(Thermodynamics)  
(Heat--Transmission)

VUKALOVICH, M.P., doktor tekhn.nauk; DZAMPOV, B.V., kand.tekhn.nauk;  
RASSKAZOV, D.S., kand.tekhn.nauk; REMIZOV, S.A., inzh.

Tables of  $C_p$  heat capacity of water and water vapor. Teploenergetika  
8 no.12:70-77 D '61. (MIRA 14:12)

1. Moskovskiy energeticheskiy institut.  
(Heat--Tables)

RASSKAZOV, D.S.

Occurrence of waviness in bitumen-mineral pavements. Avt. dor.  
28 no.4:20-21 Ap '65. (MIRA 18:5)

AUTHORS: Rasskazov, D. S., Sheyndlin, A. Ye. SOV/20-120-4-23/67

TITLE: The Experimental Investigation of the Specific Heat  $C_p$  of Water and Steam With High Parameters (Kspieritel'noye issledovaniye teploemkosti  $C_p$  vody i vodyanogo para vysokikh parametrov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 4, pp.771-773 (USSR)

ABSTRACT: The authors first give a short report about various earlier papers dealing with the same subject. A new investigation of the specific heat of water and steam was carried out by the improved method developed by A. Ye. Sheyndlin (ref 2). The most important improvement was the introduction of a device for the reliable stabilization of temperatures in hot as well as in cold calorimeters. Besides, the accuracy of pressure measurement was improved. Pressure is measured by means of a piston manometer constructed by M. K. Zhokhovskiy. When dealing with measuring results much attention was paid to the analysis of the influence exercised by the specific heat, which changes only little during the experiment, upon calorimetric temperature difference. A character-

Card 1/3

The Experimental Investigation of the Specific Heat  $C_p$  of Water and Steam With High Parameters

SOV/20-120-4-23/67

istic feature of the experimental method chosen for this purpose was the practically complete avoidance of the correction due to the throttle-effect. Much care was also devoted to temperature measurement. The experimental data obtained have an error of the order of 1,5 %. A total of 317 experimental values of specific heat was determined; these values are given in a table. Experiments extended to the range of from 300 to 500 atmospheres at temperatures of from 280 to 685°. The new experimental data obtained agree satisfactorily with the data of an earlier work by A. Ye. Sheyndlin. The precise data concerning the values of specific heat, which were nevertheless determined and described in short, necessitate corresponding changes of the values of enthalpy, which is of considerable importance for calculation. There are 1 table and 5 references, 4 of which are Soviet.

Card 2/3

007,20-120-4-23/67  
The Experimental Investigation of the Specific Heat  $C_p$  of Water and Steam  
With High Parameters  
PRESENTED: January 8, 1958, by S. A. Kristianovich, Member, Academy of  
Sciences, USSR  
SUBMITTED: January 3, 1958  
1. Water--Specific heat 2. Steam--Specific heat 3. Calorimeters  
--Performance 4. Temperature--Measurement

Card 3/3

*RASSKAZOV, D.S.*

**AUTHOR:** Vukalovich, M.P. Dr. Tech.Sci., Sheyndlin, A.Ye., SOV/96-58-7-2/22  
Dr.Tech.Sci. and Rasskazov, D.S. Cand.Tech.Sci.

**TITLE:** Investigation of the specific heat at constant pressure  $c_p$  of steam up to 700 atm and 700°C. (Issledovaniye teployemkosti  $c_p$  vodyanogo para do 700 ata i 700°C.)

**PERIODICAL:** Teploenergetika, 1958, No.7, pp. 7-9 (USSR)

**ABSTRACT:** This is a continuation of the work described in Teploenergetika No.11 1957, on the  $c_p$  of steam in the super-critical region from 300 to 500 atm. The same method and equipment were used in the present work. The work was done on the isobars 550, 600 and 700 atm at temperatures of 280 - 700°C. The errors are estimated not to exceed 2%. The 116 experimental values of specific heat obtained in the work are tabulated. Graphs of new experimental values of specific heat in co-ordinates of  $c_p$ - $t$ , and also values obtained in the previous investigation, are given in Fig.1. The agreement between the two sets of work is illustrated in Figs.3. and 4. by graphs of  $c_p$  against pressure for various isotherms. The work in the previous article is also compared graphically with that of other authors in Fig.2;

Card 1/2

Investigation of the specific heat at constant pressure  $c_p$   
of steam up to 700 atm and 700°C.

SOV/96-58-7-2/22

agreement is good and the reasons for such differences as exist are discussed. Data of other Soviet authors is included in Figs.3. and 4. and the new data are in reasonable agreement with old where they overlap. There are 4 figures, 1 table and 8 literature references (6 Soviet and 2 German)

ASSOCIATION: Moskovskiy Energeticheskiy Institut (Moscow Power Institute)

1. Steam - Specific heat
2. Steam - Pressure factors
3. Steam - Temperature factors

Card 2/2

L 63204-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/ENG(m)/EWP(j) WW/GC/RM.

ACCESSION NR: AP5018875

UR/0096/65/000/008/0083/0084  
662.987.543.8

AUTHORS: Rasskazov, D. S. (Candidate of technical sciences); Babikov, Yu. M. (Engineer); Belinskaya, N. T. (Engineer); Lyapunov, O. I. (Engineer)

31  
30  
B

TITLE: Change in thermophysical properties of monoisopropyldiphenyl under the influence of reactor radiation

SOURCE: Teplotoenergetika, no. 8, 1965, 83-84

TOPIC TAGS: thermophysical property, viscosity, polymer, irradiation exposure

ABSTRACT: The changes in viscosity and density of monoisopropyldiphenyl (M) under radiation were investigated in a temperature range of 20-280C and 0-10% polymer concentration. The irradiation process was carried out in the circulation loop of a commercial reactor in the 200-250C temperature range. The results show that for a given concentration the relative viscosity of (M) remains constant in a wide temperature range but increases if the concentration is raised. Up to 100C, this result agrees well with previous investigations. Two empirical expressions are proposed to correlate the data for a range in  $\pi$  (% mass concentration in solution) from 0 to 30%. These equations are:

$$\eta_r/\eta_{p,acc} = (1 + 0.035\pi)$$

$$\rho_{p,acc} = \frac{65.6}{(1+60)\pi}$$

Card 1/2

L 63204-65

ACCESSION NR: AP5018875

where  $\eta$  is given in Newtons-sec/m<sup>2</sup> and  $p_a = p_{prev} + 1,5\eta$ ,  
 $p_{prev} = 984 - 0,473t - 0,811 \cdot 10^{-7}t^2$ .

Orig. art. has: 2 formulas, 2 figures, and 1 table.

ASSOCIATION: Moskovskiy energeticheskii institut (Moscow Heat Power Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT,

NO REF SOV: 006

OTHER: 005

GC

*dm*  
Card 2/2

RASSKAZOV, D. S. Cand Tech Sci -- (diss) "Experimental study of ~~the~~ heat capacity of <sup>9</sup>Sr water and <sup>water vapor at</sup> ~~steam under a~~ pressures of ~~\_\_\_\_\_~~ <sup>from</sup> 300 to 700 ata <sup>Absolute atmosphere</sup> and at <sup>280 to 700°C</sup> temperatures <sup>from</sup> Mos, 1958. 16 pp (Min of Higher Education USSR. Mos Order of Lenin Power Engineering Inst), 100 copies (KL, 14-58, 114)

2-72-

SHERSTYUK, Aleksandr Nikolayevich; RASSKAZOV, D.S., red.; BORUNOV, N.I.,  
tekhn.red.

[Compressors] Kompresory. Moskva, Gos.energ.izd-vo, 1959.  
190 p. (MIRA 12:9)  
(Compressors)

GOHNSHTERN, David Petrovich; PASKHAZOV, D.S., red.; LARIONOV, G.Ye.,  
tekh. red.

[Will the universal clock ever stop? A popular exposition of  
the theory of entropy] Ostanoviatsia li mirovye chasy? Popu-  
liarnoe izlozhenie ucheniia ob entropii. Moskva, Gosenergo-  
izdat, 1963. 102 p. (Biblioteka teplotekhnika, no.11)

(MIRA 16:12)

(Entropy)

RASSKAZOV, D.S.; SHEYNDLIN, A.Ye.

Experimental study of the specific heat at constant pressure of  
water and steam at high parameters. Dokl. AN SSSR 120 no. 4:771-  
774 Je '58. (MIRA 11:8)

1. Predstavleno akademikom S.A. Khristianovichem.  
(Water)  
(Heat capacity)

RASSKAZOV, D.S.

RASSKAZOV, D.S., inzh.; SHEYNDLIN, A.Ye., doktor tekhn.nauk, prof.

An experimental investigation into heat capacity ( $c_p$ ) of water  
and water-vapor of high parameters. Teploenergetika 4 no.11:81-84  
N '57. (MIRA 10:10)

I.Moskovskiy energeticheskiy institut.  
(Steam--Tables, calculations, etc.)

*Handwritten:* K. P. Komarov

KOMAROV, L.P.; RASKAZOV, D.S.

Survey of the history of studies of steam heat capacity. Vop. 1st.  
est. 1 tekhn. no.3:142-157 '57. (MIRA 11:1)  
(Steam--History)

TSEDERBERG, Nikolay Valerianovich; POPOV, Valentin Nikolayevich; MORO-  
ZOVA, Nadezhda Anisimovna; RASSKAZOV, D.S., red.; VORONIN, K.P.,  
tekhn. red.

[Thermal and physical properties of helium] Teplofizicheskie svoistva  
geliia. Moskva, Gos. energ. izd-vo, 1961. 118 p. (MIRA 14:8)  
(Helium)

BOSHNYAKOVICH, P.; VUKALOVICH, M.P. [translator], redaktor; KIRILLIN, V.A.  
[translator], redaktor; RASSKAZOV, D.S., redaktor; SKVORTSOV, I.M.,  
tekhnicheskiy redaktor

[Engineering thermodynamics. Translated from the German] Tekhnicheskaya termodinamika. Perevod s nemetskogo i red. M.P.Vukalovicha i V.A.Kirillina. Moskva, Gos. energ. izd-vo. Pt.2. 1956. 255 p.  
(Thermodynamics) (MLRA 9:10)

ALIKSEYEV, Valentin Petrovich; VYRUBOV, Dmitriy Nikolayevich; RASSKAZOV,  
D.S., red.; BORUNOV, N.I., tekhn.red.

[Internal combustion piston engines] Porshnevye dvigateli vnutren-  
nego sgoraniia. Moskva, Gos.energ.izd-vo, 1959. 102 p. (Biblioteka  
teplotekhnika, no.5). (MIRA 13:4)  
(Gas and oil engines)

VUKALOVICH, M.P., doktor tekhn.nauk; DZAMPOV, B.V., kand.tekhn.nauk;  
BASSKAZOV, D.S., kand.tekhn.nauk

Thermal properties of water and steam at pressures up to 1000  
kg./cm<sup>2</sup> and a temperature range of 300 to 1000° C. Teploener-  
getika 8 no.7:48-49 JI '61. (MIRA 14:9)

1. Moskovskiy energeticheskiy institut.  
(Water--Thermal properties)  
(Steam--Thermal properties)

CHERKASSKIY, Vladimir Mikhaylovich; ROMANOVA, Tamara Mikhaylovna;  
KAUL', Rafail Aleksandrovich; RASSKAZOV, D.S., red.;  
SHIROKOVA, M.M., tekhn. red.

[Pumps, compressors, fans] Nasosy, kompressory, ventilatory.  
Moskva, Gosenergoizdat, 1962. 261 p. (MIRA 15:6)  
(Pumping machinery) (Compressors) (Fans, Mechanical)

VUKALOVICH, M.P., prof., doktor tekhn. nauk; RASSKAZOV, D.S., kand. tekhn. nauk; POPOV, V.N., kand. tekhn. nauk; BABIKOV, Yu.M., inzh.

Heat properties of monoisopropyldiphenyl. Toplenergetika 11 no.6:  
56-58 Je '64. (MIRA 18:7)

1. Moskovskiy energeticheskiy institut.

RASSKAZOV, D.S., *Kand. tekhn. nauk*; BABIKOV, Yu.M., *Inst.*; KHARIN, R.,  
Dissertant

Effect of thermal decomposition on thermal and physical properties  
of monoisopropylidiphenyl. *Teploenergetika* 11 no.9:71-73 S 164.  
(MIRA 19:8)

1. Moskovskiy energeticheskiy institut.

~~RASSKAZOV, D.S., kand. tekhn. nauk; BABIKOV, Yu.M., inzh.; BELINSKAYA,  
N.I., inzh.; LYAPUNOV, O.I., inzh.~~

Change in the thermophysical properties of monoisopropylbiphenyl  
subject to reactor irradiation. Teploenergetika 12 no.8:83-84  
Ag '65. (MIRA 18:9)

1. Moskovskiy energeticheskiy institut.

ACCESSION NR: AP4037641

S/0096/64/000/006/0056/0058

AUTHOR: Vukalovich, M. P. (Doctor of technical sciences, Professor); Rasskazov, D. S. (Candidate of technical sciences); Popov, V. M. (Candidate of technical sciences); Babikov, Yu. M. (Engineer)

TITLE: Thermophysical properties of monoisopropyldiphenyl

SOURCE: Teplóenergetika, no. 6, 1964, 56-58

TOPIC TAGS: monoisopropyldiphenyl, Hagen Poiseuille equation, Vargartik equation.

ABSTRACT: The authors present the results of an experimental investigation of the density, thermal conductivity, heat capacity, and viscosity of monoisopropyldiphenyl. The density was determined by the pycnometric method at room temperature and by the piezometric method for a constant volume at  $t = 50-350^{\circ}\text{C}$ . From the experimental results the authors determined that the temperature dependence of the density is

$$\rho = 984.3 - 0.473t - 0.811 \cdot 10^{-3}t^2, \text{ kg/m}^3 \quad (1)$$

Calculation and experiment agreed within 0.3%. Thermal conductivity was deter-

Card 1/3

ACCESSION NR: AP4037641

mined at  $t = 30-230C$ . The experimental data are well described by the Vargaftik equation ("Teplofizicheskiye svoystva veshchestv," Gosenergoizdat, 1956.)

$$\lambda = B_p^{4/3} \quad (2)$$

Calculation accuracy was within experimental error. Viscosity was computed according to the Hagen-Poiseuille equation

$$v = \frac{\pi \Delta P r^4 \tau}{8L\eta} \quad (3)$$

and was measured at  $t = 20-350C$ . Heat capacity was determined according to a formula obtained from the thermal balance of two calorimeters, and was measured at  $t = 38-212C$ . Experimental data are described by the following equation

$$c_p = 1.620 + 34.8 \cdot 10^{-4} t \quad (5)$$

Card 2/3

ACCESSION NR: AP4037641

Discrepancy between calculation and experiment did not exceed 1.3%. All the above values agree within experimental error with those obtained by N. B. Vargaftik et al. ("Neft' i gas" no. 7, 1963). Orig. art. has: 1 figure, 5 formulae, and 2 tables.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Institute)

SUBMITTED: 00

DATE ACQ: 22Jun64

ENCL: 00

SUB CODE: 00, TD

NO REF SOV: 013

OTHER: 001

Card 3/3

L 8938-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-L/Pr-L/Ps-L RPL/ASD(d) WW/DJ/RM

ACCESSION NR: AP4044561

S/0096/64/000/009/0071/0073

AUTHOR: Rasskazov, D. S. (Candidate of technical sciences); Babikov, Yu. M. (Engineer); Khamann, K. (Engineer)

TITLE: The effect of thermal decomposition on the thermophysical properties of monoisopropyldiphenyl

SOURCE: Teploenergetika, no. 9, 1964, 71-73

TOPIC TAGS: liquid heat transfer agent, monoisopropyldiphenyl, thermal decomposition, decomposition products

ABSTRACT: The thermal decomposition of the liquid organic heat transfer agent monoisopropyldiphenyl (I) was studied at 370-400C and 20 bars to determine the effect of the high-boiling decomposition products (II) of I (less volatile products than I and consisting mainly of polyphenyls) on the viscosity ( $\eta$ ) and density ( $\rho$ ) of partially decomposed I. Results showed that the main product formed by the thermal decomposition of I is II with an average molecular weight of 273+4. The concentration of II increased with time and

Card 1/3

I. 8938-65

ACCESSION NR: AP4044561

temperature; in particular, a marked increase in the concentration of II was observed in experiments with I in the presence of air; in this case the concentration of II increased from 8.5% on heating for 100 hr at 400C to 26% on heating for 156 hr at 400C. The relative viscosity of I is directly proportional to the concentration of II and inversely proportional to the temperature. The following equation relating these parameters is given:  $\eta_{\pi}/\eta_0 = (1 + \pi/100)$ , where  $\eta_{\pi}$  is the viscosity of the partially decomposed I,  $\eta_0$  is the viscosity of pure I, and  $\pi$  is the concentration (in %) of II. The dependence between density, temperature, and the concentration of II in partially decomposed I is expressed by the following equation:  $\rho_{\pi} = \rho_0 + 1.7\pi$ , where  $\rho_{\pi}$  is the density of the partially decomposed I, and  $\rho_0$  is the density of pure I. These equations are valid over a temperature range of 100—350C and  $\pi=0-3\%$ . The equations may be used to determine the content of II from the concentration dependence of the viscosity. The data on  $\rho$  may be used to monitor the thermal decomposition of I and to determine the periods between regenerations. Orig. art. has: 2 tables and 2 figures.

Card 2/3

L 8938-65

ACCESSION NR: AP4044561

ASSOCIATION: none

SUBMITTED: 00

ATD PRESS: 3109

ENCL: 00

SUB CODE: 0C

NO REF SOV: 007

OTHER: 005

Card 3 / 3

RASSKAZOV, F.M., elektromekhanik

Relay simulators for disconnecting switches and isolated sectors.  
Avtom., telem. i sviaz' 8 no.5:44-45 Iy '64.

(MIRA 17:10)

1. 6-ya distantsiya Privolzhskoy dorogi.

RASSKAZOV, I., starshiy inzh.

Something new in water supply for livestock farms. Sel'. stroi.  
15 no. 2:20-21 F '61. (MIRA 14:5)

1. Tambovskoye oblastnoye upravleniye po stroitel'stvu i vodnomy  
khozyaystvu.

(Tambov Province--Water supply, Rural)

RASSKAZOV, I., inzh.

Creative initiative has given good results. Sel'.stroj. 14  
no.10:20 0 '59. (MIRA 13:2)  
(Dairy barns)

NARINYAN, M.A.; RASSKAZOV, I.D.; MESHCHERYAKOV, L.I.; RAYEVSKIY, N.A.;  
MURAVLEV, G.A.

Erection of the 44,8 metal span structures by the GEPK-130  
crane. Transp. stroi. 15 no.9:13-16 S '65. (MIRA 18:11)

1. Upravlyayushchiy Mostostroyem No. 3 (for Narinyan).
2. Glavnyy inzh. Mostostroya No. 3 (for Rasskazov). 3. Glavnyy  
tekhnolog Mostostroya No. 3 (for Meshcheryakov). 4. Nachal'nik  
tekhnicheskogo otdela Mostostroya No.3 (for Rayevskiy).
5. Starshiy inzh. Mostostroya No.3 (for Muravlev).

RASSKAZOV, I.D.; MESHCHERYAKOV, L.I.; RAYEVSKIY, N.A.; FILIPPOV, O.N., inzh.

Assembling prestressed reinforced concrete beams with the  
K-451M cranes. Transp. stroi. 14 no.10:13-16 0 '64. (MIRA 18:3)

1. Glavnyy inzh. Mostostroya No.3 (for Rasskazov).
2. Glavnyy tekhnolog Mostostroya No.3 (for Meshcheryakov).
3. Nachal'nik tekhnicheskogo otdela Mostostroya No.3 (for Rayevskiy).

RASSKAZOV, I.D.

Pay more attention to the bridge industry. Transp.stroi. 13  
no.10:32-33 0 '63. (MIRA 17:8)

1. Glavnyy inzh. Mostostroitel'nogo tresta No.3.